

(D) REMARKS

Claim Rejections 35 USC 102

The Examiner rejected claim 1 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,510,622 to Hu, et al (Hu). Claim 1 is not anticipated by the Hu reference because Hu does not disclose coupling the detector elements together. To the contrary, Hu is directed towards reducing pitch by:

translating alternate rows or columns of detector elements one-half the length of a detector element along that dimension. This may be accomplished with, but is not limited to either square or rectangular shaped detector elements. Pitch may also be reduced along one dimension by skewing the detector elements to effectively translate the centers of alternate rows or columns by one-half the length of the detector element along that dimension. Col. 1 lines 59-67.

Claim 1, as amended, is believed to be in position for allowance.

Hoffman

The Examiner rejected claims 5, 9-11 and 21 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent Publication 2002/0085108 (the '108 reference).

The '108 reference is directed to a detector array in which certain detector elements are left "open," as shown in Figs. 5 and 6, that is:

In an embodiment of this invention, if cells on either side of a center cell are disconnected and only a center cell is connected, the charge would diffuse and be collected by the center electrode. Instead of using FETs to connect cells together, this embodiment uses disconnected cells and lets charge distribute itself to cells around the disconnected cells. ¶33 of the '108 reference.

The present invention actually takes the signal generated from combined detector elements for each data acquisition channel. The '108 reference takes the signal from a single detector element and wherein

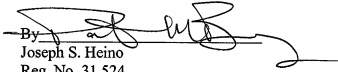
some cells float (i.e. they are left open) and their collected charge will re-distribute itself among the neighboring cells. This embodiment allows cell

summing in the x direction with a much simpler interconnect scheme i.e. far fewer FET switches and simplified decoder. ¶9 of the '108 reference.

As such, claims 5, 9 and 21, as amended, are believed to be in position for allowance.

The remainder of the claims are believed to be in position for allowance on the grounds that they depend from allowable claims.

Respectfully submitted,
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